

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/803,086	03/08/2001	Paul Duxbury	190-1471	8514

7590 08/13/2004

William M. Lee, Jr.
Lee, Mann, Smith, McWilliams, Sweeney & Ohlson
P.O. Box 2786
Chicago, IL 60690-2786

EXAMINER

MISTRY, O NEAL RAJAN

ART UNIT	PAPER NUMBER
----------	--------------

2173

DATE MAILED: 08/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/803,086

Applicant(s)

DUXBURY, PAUL

Examiner

O'Neal R Mistry

Art Unit

2173

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03/08/2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 March 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. This application has been examined.
2. Claims 1-14 are presented for examination.

Priority

3. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. GB 0008999.5, filed on 04/13/2000.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Angiulo et al (U.S. Patent Number 6,275,829).
5. In regards to claim 1, Angiulo discloses a method for storing and accessing electronic content, the method comprising:
 - (a) storing content objects in a structured manner in a content store (col. 1 lines 25-27)
[Information sources managed by the server may include files,

Art Unit: 2173

databases, and applications on the server system or on an external computer system.]. The examiner interprets that a content store is a place where content or information is stored, that could be any variety of things like a server, hard disk, or even a database.

(b) identifying some of the content objects in the content store as shortcuts, pointing to other objects in the content store (col. 5 line 66 – col. 6 line 5). [the saved link enables the original image to be retrieved and displayed if the thumbnail image is selected, causing the link to be activated.]

The examiner notes that the prior art has the ability of linking a thumbnail to the original image.; and

(c) when a shortcut is accessed, automatically accessing the target object pointed to by that shortcut from the content store, and returning said target object in place of the shortcut object. (col. 5 line 66 – col. 6 line 5). [the saved link enables the original image to be retrieved and displayed if the thumbnail image is selected, causing the link to be activated.] The examiner notes that the prior art has the ability of linking a thumbnail to the original image.

6. In regards to claim 2, Angiulo discloses the content objects include a plurality of web pages (col. 11 lines 36-41) [In a block 124, a link attribute is automatically added to (associated with) the thumbnail image. Whenever the user selects the thumbnail image in the Web page the selection will cause the web browser to activate the link attribute and replace the display of the Web page and the

Art Unit: 2173

thumbnail image with original image 10.]. The examiner notes that the thumbnail can be used in multiple web browser, and also concludes that each thumbnail also contains a link to the original image or document.

7. In regards to claim 3, Angiulo states enabling aspects of the target object to be modified by the shortcut when the target object is accessed through the shortcut. (col. 10 lines 20–25) [A checkbox 84 is employed by the user to selectively employ the beveled edge effect, and if not checked, a beveled edge will not be provided. The display of beveled edge image 82 is dynamically linked to checkbox 84 so that the selection of the beveled edge will immediately be reflected in the displayed image.]. The examiner interprets that in Figure 3, the user has the ability to change the thumbnail to include borders around the image, which is also dynamically linked to the displayed image.

8. In regards to claim 4, Angiulo discloses a method including:

(a) assigning properties to content objects, including shortcuts (col. 11 lines 25- 35)

[For example, FIG. 11A shows the text in an HTML document 228 that includes a document URL address 218, a text string 222, and a tag 220 that is associated with original image 10. A web browser that evaluates HTML document 228 will produce a Web page 146 as shown in FIG. 6. As an additional example, FIG. 11B shows an HTML document 230 that includes document URL address 218, text string 222, and a tag 224 that is associated with

Art Unit: 2173

thumbnail image 12. When a web browser evaluates HTML document 230, a Web page 146', as depicted in FIG. 7, will be displayed.]. The examiner interprets that in Figure 11A item 220 is used to tag what the original image so when a individual were to execute the thumbnail link, this would allow the html to obtain the original image. ;and

(b) causing the properties of a shortcut to override any corresponding properties of the target object it points to. The examiner notes that Angiulo's patent it is inherent that the thumbnail link, when executed by the user, will override any corresponding properties because a thumbnail in Angiulo's patent is only linked to one image, so that is why it will override any corresponding properties of the of the target object it points to.

9. In regards to claim 5, Angiulo states a plurality of shortcuts with different properties point to the same target object, thereby providing different multiple concurrent views of the same target object, whereby any changes in the target are reflected in all the views. (col. 5 lines 62-63) [introduce a thumbnail image into a Web page to represent an original image. The thumbnail image has a size that is substantially smaller than the original image.] The examiner interprets that if the thumbnail image is representing the original image, then any changes made to the original will directly effect the thumbnails that are representing that image. Also, the examiner notes that if a thumbnail is being presented into a Web page, it common in the art, that multiple browsers can represent the same page, which thereby provide different multiple concurrent views of the original image.

Art Unit: 2173

10. In regards to claim 6, Angiulo discloses including

(a) defining each content object as an instance of a specified class (col. 12 lines 17-20)

[which includes original image 10 and a text string 142. Also, browser 140 indicates a URL address 144 that identifies the absolute location of Web page

146.] The examiner interprets that the URL address identifies the unique thumbnail, which is linked to the original image, location by typing into the text field of the web browser; and

(b) causing a shortcut to automatically inherit the class of the target object it points to

(col. 12 lines 17-20) [which includes original image 10 and a text string 142. Also, browser 140 indicates a URL address 144 that identifies the absolute location of Web page

146.] The examiner interprets that the URL address identifies the unique thumbnail, which is linked to the original image, location by typing into the text field of the web browser.

11. In regards to claim 7, Angiulo states assigning ad hoc properties, not defined by the class, to a shortcut (Figure 4 & col. 10 line 37- col. 11 line 19) [The present invention enables a user to automatically produce a thumbnail (sized) image in a new or existing Web page to represent an original image selected in the existing Web page or from a directory in which the original image is stored.]. The examiner interprets in Figure 4 the process by which a shortcut is assigned ad hoc properties.

Art Unit: 2173

Figure 4 demonstrates a block diagram for the entire process by which the shortcut, which is the thumbnail, is created, and the properties, meaning the hyperlink, borders, and directory, are assigned to the thumbnail.

12. In regards to claim 8, Angiulo discloses arranging the content objects in a tree structure, and accessing each object by a hierarchic address. The examiner notes that if a directory structure is used in Angiulo's content store, meaning database, it is inherent that a tree structure is used as well, because a directory structure is another form of a tree structure. The shortcut that is created by the prior art has a directory address connected to the shortcut link, which allows the browser to go to that specific location of the directory structure and retrieve and display that image.

13. In regards to claim 9, Angiulo discloses including:

(a) providing a shortcut that points to a target object forming the root of a subtree within the tree structure (col. 7 lines 28-32 & col. 3 lines 39-40) [automatically produce a thumbnail (sized) image in a new or existing Web page to represent an original image selected in the existing Web page or from a directory in which the original image is stored.] [The base URL is used to determine the protocol identifier, machine name, optional port and base directory for a relative URL.]. The examiner interprets that the original file is stored in a directory, which is inherently has a tree structure, that is used to link the thumbnail and original image together. This way when the link between thumbnail and original image are connected through the directory, the thumbnail is able to retrieve the original image.; and

Art Unit: 2173

(b) accessing objects within the subtree through the shortcut as if they were in a subtree having the shortcut as its root. (col. 7 lines 28-32) (col. 7 lines 28-32 & col. 3 lines 39-40) [automatically produce a thumbnail (sized) image in a new or existing Web page to represent an original image selected in the existing Web page or from a directory in which the original image is stored.] [The base URL is used to determine the protocol identifier, machine name, optional port and base directory for a relative URL.]. The examiner interprets that the original file is stored in a directory, which is inherently has a tree structure, that is used to link the thumbnail and original image together. This way when the link between thumbnail and original image are connected through the directory, the thumbnail is able to retrieve the original image.

14. In regards to claim 10, Angiulo discloses the shortcut contains a depth property, which specifies the number of layers that may be accessed within the subtree by way of the shortcut. [automatically produce a thumbnail (sized) image in a new or existing Web page to represent an original image selected in the existing Web page or from a directory in which the original image is stored.] [The base URL is used to determine the protocol identifier, machine name, optional port and base directory for a relative URL.].

15. In regards to claim 11, Angiulo states the shortcut includes a filter property for selecting content objects within the subtree according to their properties. (col. 12 lines 29-35) [FIG. 8, browser 140 is shown displaying original image 10,

Art Unit: 2173

disposed at another URL address 148. This display is presented in response to the user selecting thumbnail image 12 in Web page 146' and thereby activating its hyperlink. The selection causes link 226 to be activated so that browser 140 retrieves and displays original image 10, from URL address 148.]. The examiner notes that the hyperlink is a filter property that selects the content object, meaning the original image, with in a directory so that the browser can not choose other content objects with different properities.

16. In regards to claim 12, Angiulo discloses the subtree represents the structure of a webpage. (col. 3 lines 37 – 40 & col. 7 lines 28-32) [A relative URL does not include a protocol identifier, machine name or port, and must be interpreted relative to some known absolute URL called the base URL. The base URL is used to determine the protocol identifier, machine name, optional port and base directory for a relative URL.] [...automatically produce a thumbnail (sized) image in a new or existing Web page to represent an original image selected in the existing Web page or from a directory in which the original image is stored.]. The examiner interprets that the URL is a directory structure, a directory structure is also like tree structure, that contains the location of web pages on a information handling system.

17. In regards to claim 13, Angiulo states a web server computer system comprising:

Art Unit: 2173

(a) a content store, storing content objects in a structured manner in a content store, some of the content objects in the content store being identified as shortcuts, pointing to other objects in the content store [Information sources managed by the server may include files, databases, and applications on the server system or on an external computer system.]. The examiner interprets that a content store is a place where content or information is stored, that could be any variety of things like a server, hard disk, or even a database; and

(b) means operative when a shortcut is accessed, for automatically accessing the target object pointed to by that shortcut from the content store, and returning said target object in place of the shortcut object . (col. 5 line 66 – col. 6 line 5 & Figure 4). [the saved link enables the original image to be retrieved and displayed if the thumbnail image is selected, causing the link to be activated.] The examiner notes that the prior art has the ability of linking a thumbnail to the original image; weather the image is stored on a database or a hard disk of a personal computer.

18. In regards to claim 14, Angiulo discloses a computer program product comprising a data carrier including a computer program for performing a method comprising:

(a) storing content objects in a structured manner in a content store (col. 7 lines 28-32)

[The present invention enables a user to automatically produce a thumbnail (sized) image in a new or existing Web page to represent an original image selected in the existing Web page or from a directory in which the original image is stored.];

Art Unit: 2173

(b) identifying some of the content objects in the content store as shortcuts, pointing to other objects in the content store (col. 2 lines 58-62) [When the user is viewing the Web page that includes the displayed thumbnail image using a web browser, the hyperlink connection from the thumbnail image to the original image is activated by the selection of the displayed thumbnail image.]; and

(c) when a shortcut is accessed, automatically accessing the target object pointed to by that shortcut from the content store, and returning said target object in place of the shortcut object (col. 12 lines 31-35) [This display is presented in response to the user selecting thumbnail image 12 in Web page 146' and thereby activating its hyperlink. The selection causes link 226 to be activated so that browser 140 retrieves and displays original image 10, from URL address 148.].

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to O'Neal R Mistry whose telephone number is (703) 305-2738. The examiner can normally be reached on 9am - 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W Cabeca can be reached on (703)308-3116. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2173

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

O'Neal Mistry
Assistant Patent Examiner
Art Unit 2173
o'neal.mistry@uspto.gov


RAYMOND J. BAYERL
PRIMARY EXAMINER
ART UNIT 2173